WHAT IS CLAIMED IS:

- 1. A method for treating or preventing tissue damage due to systemic inflammatory response syndrome comprising administering to an animal a therapeutically effective amount of a pyrimidine nucleotide precursor.
- 2. A method for treating or preventing sepsis comprising administering to an animal a therapeutically effective amount of a pyrimidine nucleotide precursor.
- 3. A method as in claim 2 wherein said pyrimidine nucleotide precursor is uridine, cytidine, orotic acid, or an acyl derivative of uridine, cytidine, or orotic acid, or a pharmaceutically acceptable salt thereof.
 - 4. A method as in claim 3 wherein said acyl derivative of uridine is triacetyluridine.
 - 5. A method as in claim 2 further comprising administering an inhibitor of uridine phosphorylase.
 - 6. A method for treating or preventing sepsis comprising administering to an animal a therapeutically effective amount of an inhibitor of uridine phosphorylase.
 - 7. A method for reducing toxicity of a therapeutic cytokine or inflammatory stimulus comprising administering to an animal a therapeutically effective amount of a pyrimidine nucleotide precursor prior to, during, or after administration of said cytokine or said stimulus.

- 8. A method as in claim 7 wherein said pyrimidine nucleotide precursor is uridine, cytidine, orotic acid, or an acyl derivative of uridine, cytidine, or orotic acid, or a pharmaceutically acceptable salt thereof.
- 9. A method as in claim 8 wherein said acyl derivative of uridine is triacetyluridine.
- 10. A method as in claim 7 wherein said cytokine or said stimulus is selected from the group consisting of interleukin 1, interleukin-2, interleukin 6, tumor necrosis factor, endotoxin, fungal polysaccharides, and double-stranded RNA.
- 11. A method as in claim 7 further comprising the step of administering an inhibitor of uridine phosphorylase.
- 12. A method for reducing toxicity of a therapeutic cytokine or inflammatory stimulus comprising administering to an animal a therapeutically effective amount of an inhibitor of uridine phosphorylase prior to, during, or after administering said cytokine or said stimulus.
- 13. A method as in claim 12 wherein said cytokine or said stimulus is selected from the group consisting of interleukin 1, interleukin-2, interleukin 6, tumor necrosis factor, endotoxin, fungal polysaccharides, and double-stranded RNA.
- 14. A method for treating cancer comprising administering to an animal a therapeutically effective amount

of a therapeutic cytokine or inflammatory stimulus and a therapeutically effective amount of a pyrimidine nucleotide precursor prior to, during, or after administration of said cytokine or said stimulus.

- pyrimidine nucleotide precursor is uridine, cytidine, orotic acid, or an acyl derivative of uridine, cytidine, or orotic acid, or a pharmaceutically acceptable salt thereof.
- 16. A method as in claim 15 wherein said acyl derivative of uridine is triacetyluridine.
- 17. A method as in claim 14 wherein said cytokine or said stimulus is selected from the group consisting of interleukin 1, interleukin-2, interleukin 6, tumor necrosis factor, endotoxin, fungal polysaccharides, and double-stranded RNA.
- 18. A method as in claim 14 further comprising the step of administering an inhibitor of uridine phosphorylase.
- 19. A method for treating cancer comprising administering to an animal a therapeutically effective amount of a therapeutic cytokine or inflammatory stimulus and a therapeutically effective amount of an inhibitor of uridine phosphorylase prior to, during, or after administering said cytokine or said stimulus.
- 20. A method as in claim 19 wherein said cytokine or said stimulus is selected from the group

consisting of interleukin 1, interleukin-2, interleukin 6, tumor necrosis factor, endotoxin, fungal polysaccharides, and double-stranded RNA.

- 21. A method for treating or preventing inflammatory hepatitis comprising administering to an animal a therapeutically effective amount of an acyl derivative of uridine, cytidine or orotic acid, or a pharmaceutically acceptable salt thereof.
- 22. A method as in claim 21 wherein said inflammatory hepatitis is due to viral infection.
- 23. A method as in claim 21 wherein said inflammatory hepatitis is due to autoimmune processes.
- 24. A method as in claim 21 wherein said inflammatory hepatitis is due to alcohol consumption.
- 25. A method as in claim 21 wherein said acyl derivative of uridine is triacetyluridine.
- 26. A method as in claim 21 including the further step of administering an inhibitor of uridine phosphorylase.
- 27. A method for treating or preventing inflammatory hepatitis comprising administering to an animal a therapeutically effective amount of an inhibitor of uridine phosphorylase.

- 28. A method for treating or preventing inflammatory hepatitis comprising administering to an animal a therapeutically effective amount of uridine or cytidine.
- 29. A method as in claim 28 wherein from 2 to 40 grams of uridine or cytidine are administered per day.
- 30. A method for treating or preventing hepatic damage in an animal receiving parenteral nutrition comprising administering intravenously to said animal a therapeutically effective amount of a pyrimidine nucleotide precursor.
- 31. A method as in claim 30 wherein said hepatic damage is due to said animal receiving parenteral nutrition.
- 32. A method as in claim 30 wherein said pyrimidine nucleotide precursor is uridine, cytidine, orotic acid, or an acyl derivative of uridine, cytidine, or orotic acid, or a pharmaceutically acceptable salt thereof.
- 33. A method as in claim 30 wherein from 2 to 40 grams of said pyrimidine nucleotide precursor are administered per day.
- 34. A method as in claim 30 including the further step of administering an inhibitor of uridine phosphorylase.
- 35. A method for treating or preventing hepatic damage in an animal receiving total parenteral nutrition comprising administering to said animal an inhibitor of uridine phosphorylase.

36. A method for treating or preventing hepatic damage in an animal receiving a liver transplant comprising administering to said animal a therapeutically effective amount of a pyrimidine nucleotide precursor.

- 37. A method as in claim 36 wherein said pyrimidine nucleotide precursor is uridine, cytidine, orotic acid, or an acyl derivative of uridine, cytidine, or orotic acid, or a pharmaceutically acceptable salt thereof.
- 38. A method as in claim 36 wherein from 2 to 40 grams of said pyrimidine nucleotide precursor are administered per day.
- 39. A method as in claim 36 including the further step of administering an inhibitor of uridine phosphorylase.
- 40. A method for treating or preventing hepatic damage in an animal receiving a liver transplant comprising administering to said animal an inhibitor of uridine phosphorylase.
 - 41. A composition comprising:
- a) an acyl derivative of a pyrimidine nucleotide precursor

and;

- b) an inhibitor of uridine phosphorylase
 - 42. A composition comprising:
- a) an acyl derivative of a pyrimidine nucleotide precursor

and;

- b) a purine nucleotide precursor.
- 43. A composition as in claim 42 where said pyrimidine nucleotide precursor is uridine, cytidine, or orotate.
- 44. A composition as in claim 42 where said purine nucleotide precursor is inosine, adenosine, or an acyl derivative of inosine or adenosine.
- 45. A composition comprising a parenteral nutrition formula and 2 to 40 grams of a pyrimidine nucleotide precursor per daily portion
- 46. A composition as in claim 45 wherein said pyrimidine nucleotide precursor is uridine, cytidine, orotic acid, or an acyl derivative of uridine, cytidine; or orotic acid, or a pharmaceutically acceptable salt thereof.
- 47. A method of providing nutrition to a mammal receiving nutrition intravenously comprising administering to said mammal the composition of claim 45.
 - 48. A composition comprising
 - a) glucose, and
 - b) a pyrimidine nucleotide precursor.
- 49. A composition as in claim 48 wherein said composition is an aqueous solution containing 1 to 10 % glucose.

- 50. A composition as in claim 48 wherein said composition is an aqueous solution containing 5 % glucose.
- 51. A composition as in claim 48 wherein said pyrimidine nucleotide precursor is uridine or cytidine.
- 52. A method of treating a mammal during or after liver transplantation comprising administering the composition of claim 48.
- 53. A method for reducing the effects of ethanol intoxication comprising administering to a mammal in need of such treatment uridine, cytidine, orotic acid, or an acyl derivative of uridine, cytidine, or orotic acid, or a pharmaceutically acceptable salt thereof.
- 54. A method of treating ethanol intoxication comprising administering to an intoxicated mammal uridine, cytidine, orotic acid, or an acyl derivative of uridine, cytidine, or orotic acid, or a pharmaceutically acceptable salt thereof.
- 55. A method as in claim 54 wherein said administering step comprises administering triacetyluridine.
- 56. A method as in claim 54 wherein said administering step comprises administering uridine or cytidine.

57. A method of reducing inflammatory liver injury in an animal in need of such treatment comprising administering to said animal a therapeutically effective amount of an acyl derivative of uridine, cytidine or orotic acid, or a pharmaceutically acceptable salt thereof.